

PAT-NO: JP411003729A
DOCUMENT-IDENTIFIER: JP 11003729 A
TITLE: LITHIUM BATTERY
PUBN-DATE: January 6, 1999

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APPL-NO: JP09152579
APPL-DATE: June 10, 1997

INT-CL (IPC): H01M010/40

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a stable electrolyte with high retainability and high ionic conductivity containing a solution comprising a solute of a lithium salt and a solvent capable of dissolving the lithium salt in an electrolyte, containing a fluorine polymer soluble in the solvent and a polymeric unit of vinylidene fluoride, and using as matrix a blend polymer of the vinylidene fluoride polymer having a melting point higher than a specified value, and the fluorine polymer.

SOLUTION: A vinylidene fluoride-based polymer having a melting point of 50°C or higher is blended with a fluorine polymer, soluble in a solvent capable of dissolving a lithium salt in the weight ratio of preferably 95/5-5/95. As the vinylidene fluoride-based polymer having a melting point of 50°C or higher, for example, vinylidene fluoride homopolymer and a copolymer of vinylidene fluoride and other monomer are used. As the lithium salt, at least one of lithium salts having, for example, ClO_4^- , CF_3SO_3^- and BF_4^- as an anion is used, and the content of the lithium salt in the polymer electrolyte is preferably 30-90 wt.%.

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